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PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
GPE04-001	International filing date (day/month/)	
international application No.	Í	
PCT/KR2004/000153	29 JANUARY 2004 (29.01.2004) 29 JANOAR 1 2003 (27.01.2003)
Applicant	•	
KOREA RESEARCH INSTITUTE	OF CHEMICAL TECHNOLOGY et	al
his International search report has been	prepared by this International Searching A	authority and is transmitted to the applicant according
o Article 18. A copy is being transmitted	to the International Bureau.	
This international search report consists of	of a total of 3 sheets.	·
It is also accompanied by a	copy of each prior art document cited in the	nis report.
	·	
 Basis of the report With regard to the language, th 	e international search was carried out on t	he basis of the international application in the
language in which it was filed.	unless otherwise indicated under this item.	:
The international se this Authority (Rul		lation of the international application furnished to
•	•	Jim the international application, see Box No. I.
b. With regard to any nucleo	tide and/or amino acid sequence disclose	d in the international application, see Box No. I.
2. Certain claims were four	d unsearchable (Sec Box No. II)	
3. Unity of invention is lack		
4. With regard to the title,		
The text is approved as sub	mitted by the applicant.	
	ed by this Authority to read as follows:	
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 With regard to the abstract, The text is approved as sull 	busitted by the applicant.	
the text is approved as single-	ned according to Rule 38.2(b), by this Auth	nority as it appears in Box No. IV. The applicant
The text has been established	om the date of mailing of this international	scarch report, submit comments to this Authority.
	<u> </u>	
6. With regard to the drawings,	Little and with the observer is Figure No.	1,2
a. the figure of the drawings to	be published with the abstract is Figure No.	
as suggested by the	appincant. it failed to suggest a figure.	
	netter characterizes the invention.	
	e published with the abstract.	
b. none of the figure is to b	c backpines with me manages	:



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FGPE04-001	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/mon	th/year) (Earliest) Priority Date (day/month/year)
PCT/KR2004/000153	29 JANUARY 2004 (29.01.20	004) 29 JANUARY 2003 (29.01.2003)
Applicant		
KOREA RESEARCH INSTITUTE OF	F CHEMICAL TECHNOLOGY	et al
This International search report has been prep to Article 18. A copy is being transmitted to		ng Authority and is transmitted to the applicant according
This international search report consists of a	total of 3 sheets.	
<u> </u>	by of each prior art document cited	in this report.
language in which it was filed, unle	ss otherwise indicated under this ite was carried out on the basis of a tr	on the basis of the international application in the em. anslation of the international application furnished to
b. With regard to any nucleotide	and/or amino acid sequence discl	osed in the international application, see Box No. I.
2. Certain claims were found up	nsearchable (See Box No. II)	
3. Unity of invention is lacking		
4. With regard to the title,		
X the text is approved as submitte	ed by the applicant.	
	y this Authority to read as follows:	:
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5. With regard to the abstract,		
X the text is approved as submitt		the interest in Box No. IV. The applicant
		uthority as it appears in Box No. IV. The applicant
may, within one month from the	e date of mailing of this internation	nal search report, submit comments to this Authority.
6. With regard to the drawings,		1.2
a the figure of the drawings to be put		To. 1,2
as suggested by the appli		•
X because the applicant fail		
· · · · · ·	characterizes the invention.	
b. none of the figure is to be pub	lished with the abstract.	

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/000153

A: CLASSIFICATION OF SUBJECT MATTER

IPC7 C09K 11/59

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C09K 11/63, 11/79, H01L 33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) NPS, PAJ

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 5,068,055 A (GTE Products Corporation) 26. NOVEMBER 1991 abstract, example1	1-13
Y	EP 972,815 A1 (XIAO ZHIGUO, XIAO ZHIQIANG) 19. JANUARY 2000 column9-16, table3, claim9-11 >> USPN 6093346 is connected by	1-13
Y	US 5,023,015 A (GTE Products Corporation) 11. JUNE 1991 abstract, axample1-2, claim1	1-13
Α .	US 6,255,670 B1 (GENERAL ELECTRIC COMPANY) 3. JULY 2001 column8 line45 - column9 line17	1, 14-18

Further documents are listed in the continuation of Box C.	X	See patent family a	annez
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- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" carlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- *O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

10 MAY 2004 (10.05.2004)

Date of mailing of the international search report 11 MAY 2004 (11.05.2004)

Authorized officer

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Facsimile No. 82-42-472-7140

Name and mailing address of the ISA/KR

Form PCT/ISA/210 (second sheet) (January 2004)

Information on patent family members

nternational application No.
PCT/KR2004/000153

Patent document cited in search report	Publication date	Patent family mcmber(s)	Publication date
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EP 972,815 A1	19.01.2000	JP 2001518972 T2 US 6093346 A WO 9842798 A1 CN 1062581 B	16.10.2001 25.07.2000 01.10.1998 28.02.2001
US 5,023,015 A	11.06.1991	NONE	
US 6,255,970 B1	03.07.2001	NONE	